	Application N	Applicant/o)	
	Application N	Applicant(s)	•
Notic of Allowability	09/673,208		
Mode of Allowability	Examiner	Art Unit	
	David A. Zarneke	2827	
The MAILING DATE of this communicati n apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic IGHTS. This application is subj	s application. If not inclusion will be mailed in du	uded
1. This communication is responsive to 3/10/04.			
2. X The allowed claim(s) is/are <u>1-27</u> .			
3. \boxtimes The drawings filed on <u>13 October 2000</u> are accepted by th	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	be been received. been received in Application N	o	cation from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAMI	NER'S AMENDMENT or	RV.
	* *,	daration is delicient.	
6. CORRECTED DRAWINGS (as "replacement sheets") mus			•
 (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _ 	on's Patent Drawing Review (P	TO-948) attached	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in t	he Office action of	
Identifying indicia such as the application number (see 37 CFR 1 ach sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the di	rawings in the front (not the	he back) f
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIA	AL must be submitted	Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	E 🗆 Nation of Informa	al Data d A . II . II . (D	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summ	al Patent Application (Parv (PTO-413)	IO-152)
B. M Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paner No /Mail	Date	
Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit			L
of Biological Material	9. ☐ Other	ement of Reasons for Al	lowance
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Application/Control Number: 09/673,208

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Seth Kim on May 20, 2004.

The application has been amended as follows: This application is in condition for allowance except for the presence of claims 28-53 drawn to a group non-elected without traverse. Accordingly, claims 28-53 have been cancelled.

The following is an examiner's statement of reasons for allowance: prior art could not be located that taught plating an interconnect pattern with a first plating layer formed on the interconnect pattern surface opposite to the substrate; a second plating layer formed on the interconnect pattern surface looking toward the substrate in the through holes; and a resin provided on the first plating layer, wherein the first plating layer is more appropriate for contact with the resin than the second plating layer, and the second plating layer is more appropriate for bonding to the conductive material than the first plating layer. This limitation, in conjunction with the other claim limitations, was neither disclosed in, nor suggested by, the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion :

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Zarneke whose telephone number is (571)-272-1937. The examiner can normally be reached on M-F 10 AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571)-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

⊅ávid A. Zarneke(Primary Examiner May 20, 2004